BBA

Biomembranes

Vol. 1066, 1991

Cumulative Contents

Regular Papers

The role of electrostatic forces in the interaction between the membrane and cytoskeleton of human erythrocytes
E. Kahana, S. Streichman and B.L. Silver (Israel) 1

A simple spectroscopic method for studying erythrocyte ghost resealing
E. Kahana, S. Streichman and B.L. Silver (Israel) 6

EPR study of the hydrophobic interaction of spectrin with fatty acids
S. Streichman, E. Kahana and B.L. Silver (Israel) 9

Endogenous L-glutamate transport in oocytes of *Xenopus laevis*
J. Steffgen, H. Koepsell and W. Schwarz (F.R.G.) 14

Escherichia coli membranes during electrotransformation: an electron microscopy study
A.G. Sabelnikov, E.S. Cymbalyuk, G. Gongadze and V.L. Borovyagin (U.S.S.R.) 21

Liposomes containing synthetic lipid derivatives of poly(ethylene glycol) show prolonged circulation half-lives in vivo
T.M. Allen, C. Hansen, F. Martin, C. Redemann and A. Yau-Young (Canada, U.S.A.) 29

Transbilayer movement of phosphatidylserine in erythrocytes. Inhibitors of aminophospholipid transport block the association of photolabeled lipid to its transporter
J. Connor and A.J. Schroit (U.S.A.) 37

Interaction of alkaline metal ions with Ca^{2+}-binding sites of Ca^{2+}-ATPase of sarcoplasmic reticulum: ^{23}Na-NMR studies
I.M. Timonin, S.N. Dvoryantsev, V.V. Petrov, E.K. Ruuge and D.O. Levitsky (U.S.S.R.) 43

Radiation inactivation of ion channels formed by gramicidin A. Protection by lipid double bonds and by α-tocopherol
C. Barth and G. Stark (F.R.G.) 54

Glycosylation of the human erythrocyte glucose transporter: a minimum structure is required for glucose transport activity
J.-P. Feugeas, D. Néel, Y. Goussault and C. Derappe (France) 59

The effect of protons or calcium ions on the phase behavior of phosphatidylserine-cholesterol mixtures
E.J. Wachtel, N. Borochov and D. Bach (Israel) 63

Three regions of erythrocyte band 3 protein are phosphorylated on tyrosines: characterization of the phosphorylation sites by solid phase sequencing combined with capillary electrophoresis
D. Yannoukakos, H.E. Meyer, C. Vasseur, C. Driancourt, H. Wajcman and E. Bursaux (France, Germany) 70

Specific binding of glycyrrhetinic acid to the rat liver membrane
M. Negishi, A. Irie, N. Nagata and A. Ichikawa (Japan) 77

Electroinsertion of xeno proteins in red blood cell membranes yields a long lived protein carrier in circulation
Y. Mouneimne, P.-F. Tosi, R. Barhoumi and C. Nicolau (U.S.A.) 83

The effect of hydration stress solutes on the phase behavior of hydrated dipalmitoylphosphatidylcholine
A.S. Rudolph and B. Goins (U.S.A.) 90

Phospholipids containing nitrogen- and sulfur-linked chains: kinetics of cholesterol exchange between vesicles
C.-C. Kan, R. Bittman and J. Hajdu (U.S.A.) 95

A NMR investigation on the interactions of the α-oligomeric form of the M13 coat protein with lipids, which mimic the *Escherichia coli* inner membrane
J.C. Sanders, T.W. Poile, R.B. Spruijt, N.A.J. Van Nuland, A. Watts and M.A. Hemminga (The Netherlands, U.K.) 102

Rapid Report

Charybdotoxin blocks cation-channels in the vacuolar membrane of suspension cells of *Chenopodium rubrum* L.
T. Weiser and F.-W. Bentrup (F.R.G.) 109

BBA Report

Role of Na^+/K^+ exchange and organic acids in base induced hyperpolarization of renal proximal amphibian tubule
M. Granitzer and P. Steels (Belgium) 111

Regular Papers

Changes in cellular membrane and paracellular conductances by amphotericin B in the epithelium of the bullfrog cornea
P.S. Reinach, J.T. Tarvin and M. Hirsch (U.S.A., France) 115

Effects of lindane on fluidity and lipid composition in rat renal cortex membranes
M.A. Pérez-Albarsanz, P. López-Aparicio, S. Senar and M.N. Recio (Spain) 124

Cytochrome b_5 and a recombinant protein containing the cytochrome b_5 hydrophobic domain spontaneously associate with the plasma membranes of cells
S.K. George, Y.-H. Xu, L.A. Benson, L. Pratsch, R. Peters and G.M. Ihler (U.S.A., F.R.G.) 131

Planar bilayer membranes from photoactivable phospholipids
F. Borle, M. Sänger and H. Sigrist (Switzerland) 144

Mechanism of cell protrusion formation in electrical field: the role of actin
S.V. Popov, T.M. Svitkina, L.B. Margolis and T.Y. Tsong (U.S.A., U.S.S.R.) 151

Large liposomes containing ganglioside GM_1 accumulate effectively in spleen
D. Liu, A. Mori and L. Huang (U.S.A.) 159

Intramolecular hydrogen bonding in cardiolipin
W. Hübner, H.H. Mantsch and M. Kates (Canada) 166

Active hexose transport across cultured human Caco-2 cells: characterisation and influence of culture conditions
S.A. Riley, G. Warhurst, P.T. Crowe and L.A. Turnberg (U.K.) 175

Transmembrane distribution of sterol in the human erythrocyte
F. Schroeder, G. Nemecz, W.G. Wood, C. Joiner, G. Morrot, M. Ayraut-Jarrier and P.F. Devaux (U.S.A., France) 183

Prehemolytic effects of hydrogen peroxide and *t*-butylhydroperoxide on selected red cell properties
M.-j. Chen, M.P. Sorette, D.T.-Y. Chiu and M.R. Clark (U.S.A.) 193

Localization and activity of renal carbonic anhydrase (CA) in CA-II deficient mice
W.F. Brechue, E. Kinne-Saffran, R.K.H. Kinne and T.H. Maren (U.S.A., Germany) 201

Na^+-Ca^{2+} exchange activity in synaptic plasma membranes derived from the electric organ of *Torpedo ocellata*
M. Tessari and H. Rahamimoff (Israel) 208

High pressure antagonism of alcohol effects on the main phase-transition temperature of phospholipid membranes: biphasic response
K. Tamura, Y. Kaminoh, H. Kamaya and I. Ueda (U.S.A.) 219

A statistical mechanical analysis of the effect of long-chain alcohols and high pressure upon the phase transition temperature of lipid bilayer membranes
Y. Suezaki, K. Tamura, M. Takasaki, H. Kamaya and I. Ueda (Japan, U.S.A.) 225

Phagocytosis of liposomes by macrophages: intracellular fate of liposomal malaria antigen
J.N. Verma, N.M. Wassef, R.A. Wirtz, C.T. Atkinson, M. Aikawa, L.D. Loomis and C.R. Alving (U.S.A.) 229

Annexin-mediated membrane fusion of human neutrophil plasma membranes and phospholipid vesicles
L. Oshry, P. Meers, T. Mealy and A.I. Tauber (U.S.A.) 239

The activation of adenylate cyclase by pituitary adenylate cyclase activating polypeptide (PACAP) via helodermin-preferring VIP receptors in human SUP-T1 lymphoblastic membranes
P. Gourlet, P. De Neef, M.-C. Woussen-Colle, A. Vandermeers, M.-C. Vandermeers-Piret, P. Robberecht and J. Christophe (Belgium) 245

Regulation of Cl-dependent K transport by oxydeoxyhemoglobin transitions in trout red cells
F. Borgese, R. Motais and F. Garcia-Romeu (France) 252

Characterization of glucosylceramide from plasma membranes of plant root cells
P. Norberg, J.-E. Månsson and C. Liljenberg (Sweden) 257

Protein carboxyl methylation in kidney brush-border membranes
D. Gingras, P. Ménard and R. Béliveau (Canada) 261

Rapid Report

Aldosterone and chloride conductance of amphibian skin
O. Devuyst, V. Beaujean and J. Crabbé (Belgium) 268

Author Index 273

Titles of related papers in other sections 276